

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) SDG MF4R19 Case 41344 Contract EPW09038 Region 6 DDTID 122941 SOW ISM01.2

Data Review Reports

Blanks

| Blanks | ICP_MS |
|--------|--|
| ND15 | The following samples have analyte results greater than or equal to MDLs. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes. |
| | MF4R19, MF4R20, MF4RA7, MF4R31, MF4R32, MF4R33, MF4R34, MF4R34D, MF4R34L, MF4R37, MF4R38, MF4RA8, MF4RA9 |
| | Calcium MF4R19, MF4R20, MF4RA7, MF4R31, MF4R32, MF4R33, MF4R34, MF4R34D, MF4R34L, MF4R37, MF4R38, MF4RA8, MF4RA9 |
| Blanks | ICP_MS |
| ND16 | The following samples have analyte results greater than or equal to MDLs. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes. |
| | MF4R19, MF4R20, MF4RA7, MF4R31, MF4R32, MF4R33, MF4R34, MF4R34D, MF4R34L, MF4R37, MF4R38, MF4RA8, MF4RA9 |
| | Calcium MF4R19, MF4R20, MF4RA7, MF4R31, MF4R32, MF4R33, MF4R34, MF4R34D, MF4R34L, MF4R37, MF4R38, MF4RA8, MF4RA9 |
| Blanks | ICP_MS |
| NCB01 | The following samples have analyte results greater than or equal to MDLs but equal to CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are reported at CRQLs. |
| | MF4R31 |
| | Chromium MF4R31 |
| Blanks | ICP_MS |
| NCB02 | The following samples have analyte results greater than or equal to MDLs but equal to CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are reported at CRQLs. |
| | MF4R31 |
| | Chromium MF4R31 |
| Blanks | ICP_MS |
| ND04 | The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs. |
| | MF4R34L, MF4R38, MF4RA8, PBW, MF4RA9, MF4R19, MF4R20, MF4RA7, MF4R31, MF4R32, MF4R33, MF4R34, MF4R34D, MF4R37 |
| | Arsenic MF4R34L, MF4R38, MF4RA8 |
| | Chromium MF4R34L |
| | Nickel MF4R34L |
| | Potassium PBW |
| | Copper MF4RA9 |

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Blanks

| Blanks | ICP_MS |
|--------|--|
| | Lead MF4R34L |
| | Cobalt MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R38 , MF4RA8 , MF4RA9 |
| | Barium MF4R34L |
| | Aluminum PBW , MF4R19 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D |
| | Beryllium MF4RA7 , MF4R31 , MF4RA8 |
| | Antimony MF4R20 , MF4RA7 , MF4R37 , MF4R38 , MF4RA8 |
| | Cadmium MF4RA7 , MF4R33 , MF4R38 , MF4RA8 |
| | Thallium MF4RA7 , MF4R34L , MF4RA8 |
| | Magnesium PBW |
| | Iron MF4R34L |
| | Manganese MF4R19 , MF4R31 , MF4R32 , MF4R34 , MF4R34D , MF4R34L , MF4R38 , MF4RA9 |
| | Silver MF4R20 , MF4R31 , MF4R32 , MF4RA8 |
| Blanks | ICP_MS |
| ND03 | The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs. |
| | MF4R34L, MF4R38, MF4RA8, PBW, MF4RA9, MF4R19, MF4R20, MF4RA7, MF4R31, MF4R32, MF4R33, MF4R34, MF4R34D, MF4R37 |
| | Arsenic MF4R34L , MF4R38 , MF4RA8 |
| | Chromium MF4R34L |
| | Potassium PBW |
| | Copper MF4RA9 |
| | Lead MF4R34L |
| | Cobalt MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R38 , MF4RA8 , MF4RA9 |
| | Barium MF4R34L |
| | Aluminum PBW , MF4R19 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D |
| | Beryllium MF4RA7 , MF4R31 , MF4RA8 |
| | Antimony MF4R20 , MF4RA7 , MF4R37 , MF4R38 , MF4RA8 |
| | Cadmium MF4RA7 , MF4R33 , MF4R38 , MF4RA8 |

National Functional Guidelines Report #03**Lab** CHEM(Chemtech Consulting Group) **SDG** MF4R19 **Case** 41344 **Contract** EPW09038 **Region** 6 **DDTID** 122941 **SOW** ISM01.2**Data Review Reports**

Blanks

| Blanks | ICP_MS |
|--------|--|
| | Thallium MF4RA7 , MF4R34L , MF4RA8 |
| | Magnesium PBW |
| | Iron MF4R34L |
| | Manganese MF4R19 , MF4R31 , MF4R32 , MF4R34 , MF4R34D , MF4R34L , MF4R38 , MF4RA9 |
| | Silver MF4R20 , MF4R31 , MF4R32 , MF4RA8 |
| Blanks | ICP_MS |
| ND05 | The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes. |
| | LCS, MF4R34S, MF4R19, MF4R20, MF4RA7, MF4R31, MF4R33, MF4R37, MF4R32, MF4R34, MF4R34D, MF4R38, MF4RA8, MF4RA9, MF4R34L |
| | Vanadium LCS , MF4R34S |
| | Arsenic LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R33 , MF4R34S , MF4R37 |
| | Chromium LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34S , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Potassium LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Copper LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34S , MF4R34L , MF4R37 , MF4R38 , MF4RA8 |
| | Lead LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34S , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Sodium LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Barium LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34S , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Cobalt LCS , MF4R34S , MF4R37 |
| | Zinc LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34S , MF4R34L , MF4R38 , MF4RA8 , MF4RA9 |
| | Aluminum LCS , MF4R20 , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Beryllium LCS , MF4R34S |
| | Antimony LCS , MF4R34S |
| | Thallium LCS , MF4R34S |
| | Cadmium LCS , MF4R34S , MF4R37 |
| | Magnesium LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Silver LCS , MF4RA7 , MF4R34S |

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Blanks

| Blanks | ICP_MS |
|--------|--|
| | Iron LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Manganese LCS , MF4R20 , MF4RA7 , MF4R33 , MF4R34S , MF4R37 , MF4RA8 |
| Blanks | ICP_MS |
| NE04 | The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs. |
| | MF4R19 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D |
| | Aluminum MF4R19 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D |
| Blanks | ICP_MS |
| NCB06 | The following samples have no detected analytes. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes. |
| | PBW , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Vanadium PBW , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Zinc PBW |
| Blanks | ICP_MS |
| ND06 | The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes. |
| | LCS , MF4R34S , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R33 , MF4R34L , MF4R37 , MF4R32 , MF4R34 , MF4R34D , MF4R38 , MF4RA8 , MF4RA9 |
| | Vanadium LCS , MF4R34S |
| | Arsenic LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R33 , MF4R34S , MF4R34L , MF4R37 |
| | Calcium LCS |
| | Chromium LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34S , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Nickel LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34S , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Potassium LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Copper LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34S , MF4R34L , MF4R37 , MF4R38 , MF4RA8 |
| | Lead LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34S , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Sodium LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Barium LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34S , MF4R34L , MF4R37 , MF4R38 , |

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Blanks

| Blanks | ICP_MS |
|--------|--|
| | MF4RA8 , MF4RA9 |
| | Cobalt LCS , MF4R34S , MF4R34L , MF4R37 |
| | Aluminum LCS , MF4R20 , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Beryllium LCS , MF4R34S |
| | Antimony LCS , MF4R34S |
| | Thallium LCS , MF4R34S |
| | Cadmium LCS , MF4R34S , MF4R37 |
| | Magnesium LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Silver LCS , MF4RA7 , MF4R34S |
| | Manganese LCS , MF4R20 , MF4RA7 , MF4R33 , MF4R34S , MF4R34L , MF4R37 , MF4RA8 |
| | Iron LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| Blanks | ICP_MS |
| NE05 | The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes. |
| | LCS, MF4R20, MF4R37, MF4R38, MF4RA8, MF4RA9, MF4R19, MF4RA7, MF4R31, MF4R32, MF4R33, MF4R34, MF4R34D, MF4R34L |
| | Aluminum LCS , MF4R20 , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Potassium LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |
| | Magnesium LCS , MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R37 , MF4R38 , MF4RA8 , MF4RA9 |

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Detection Limit

| Detection Limit | ICP_MS |
|-----------------|--|
| NDL1 | The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J. |
| | MF4R34L, MF4R38, MF4RA8, PBW, MF4RA9, MF4R34, MF4R34D, MF4R19, MF4R20, MF4RA7, MF4R31, MF4R32, MF4R33, MF4R37 |
| | Arsenic MF4R34L , MF4R38 , MF4RA8 |
| | Chromium MF4R34L |
| | Nickel MF4R34L |
| | Potassium PBW |
| | Copper MF4RA9 |
| | Lead MF4R34L |
| | Selenium MF4R34 , MF4R34D , MF4R38 , MF4RA9 |
| | Cobalt MF4R19 , MF4R20 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D , MF4R34L , MF4R38 , MF4RA8 , MF4RA9 |
| | Barium MF4R34L |
| | Aluminum PBW , MF4R19 , MF4RA7 , MF4R31 , MF4R32 , MF4R33 , MF4R34 , MF4R34D |
| | Beryllium MF4RA7 , MF4R31 , MF4RA8 |
| | Antimony MF4R20 , MF4RA7 , MF4R37 , MF4R38 , MF4RA8 |
| | Cadmium MF4RA7 , MF4R33 , MF4R38 , MF4RA8 |
| | Thallium MF4RA7 , MF4R34L , MF4RA8 |
| | Magnesium PBW |
| | Iron MF4R34L |
| | Manganese MF4R19 , MF4R31 , MF4R32 , MF4R34 , MF4R34D , MF4R34L , MF4R38 , MF4RA9 |
| | Silver MF4R20 , MF4R31 , MF4R32 , MF4RA8 |

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Serial Dilution

| Serial Dilution | ICP_MS |
|-----------------|--|
| NL032 | The following ICP-MS Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ. |
| | MF4R19, MF4R20, MF4RA7, MF4R31, MF4R32, MF4R33, MF4R34, MF4R37, MF4R38, MF4RA8, MF4RA9 |
| | Iron MF4R34L |